

Fri Sep 24 08:32:26 2004

us-10-072-809b-8.ra1

Page 1

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 23, 2004, 18:25:25 ; Search time 32 Seconds  
(without alignments)  
75.826 Million cell updates/sec

Title: US-10-072-809B-8

Perfect score: 274  
Sequence: 1 RECKTESNTPFGICITKTPKC.....KFTDGHCSKILRRCLCTKPC 47

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

1: /cgn2\_6/prodata/2/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/prodata/2/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/prodata/2/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/prodata/2/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/prodata/2/1aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/prodata/2/1aa/backfilles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	185	67.5	188	6	5175095-3
2	121	44.2	47	1	US-08-377-687-28
3	121	44.2	47	1	US-08-656-318A-13
4	121	44.2	47	2	US-08-777-192-28
5	121	44.2	47	2	US-08-556-459-13
6	121	44.2	47	3	US-08-971-982-28
7	116	42.3	74	4	US-09-442-631-4
8	113	41.2	75	1	US-08-289-458-2
9	113	41.2	75	2	US-08-761-549-2
10	113	41.2	75	3	US-09-127-646-2
11	107.5	39.2	83	4	US-09-442-631-2
12	99	36.1	88	1	US-08-377-687-29
13	99	36.1	48	1	US-08-656-318A-11
14	99	36.1	48	2	US-08-777-192-29
15	99	36.1	48	2	US-08-956-459-11
16	99	36.1	48	3	US-08-971-982-29
17	97	35.4	47	4	US-09-077-851-21
18	90.5	33.0	51	4	US-09-077-851-61
19	88.5	32.3	51	4	US-09-077-851-25
20	88.5	32.3	51	4	US-09-077-851-46
21	88.5	32.3	51	4	US-09-077-851-66
22	88.5	32.3	51	4	US-09-077-851-76
23	88	32.1	47	1	US-08-377-687-30
24	88	32.1	47	1	US-08-656-318A-12
25	88	32.1	47	2	US-08-777-192-30
26	88	32.1	47	2	US-08-956-459-12
27	88	32.1	47	3	US-08-971-982-30

28	86.5	31.6	51	4	US-09-077-951-26	Sequence 26, Appl
29	86.5	31.2	46	3	US-08-632-511A-5	Sequence 5, Appl
30	86.5	31.2	46	3	US-09-091-590A-11	Sequence 11, Appl
31	85.5	31.2	46	4	US-09-488-200-5	Sequence 5, Appl
32	85.5	31.2	51	1	US-08-377-687-19	Sequence 19, Appl
33	85.5	31.2	51	1	US-08-656-318A-3	Sequence 18, Appl
34	85.5	31.2	51	1	US-08-627-706-18	Sequence 19, Appl
35	85.5	31.2	51	2	US-08-777-192-19	Sequence 18, Appl
36	85.5	31.2	51	2	US-08-956-459-3	Sequence 19, Appl
37	85.5	31.2	51	3	US-08-971-982-19	Sequence 18, Appl
38	85.5	31.2	51	3	US-09-103-489-18	Sequence 18, Appl
39	85.5	31.2	51	4	US-09-077-851-8	Sequence 28, Appl
40	85.5	31.2	51	4	US-09-077-851-28	Sequence 28, Appl
41	85.5	31.2	51	4	US-09-077-851-57	Sequence 57, Appl
42	85.5	31.2	51	4	US-09-077-851-57	Sequence 34, Appl
43	85.5	31.2	51	4	US-09-829-381D-18	Sequence 18, Appl
44	85.5	31.2	51	4	US-09-589-733C-22	Sequence 22, Appl
45	85.5	31.2	74	1	US-08-543-238-5	Sequence 5, Appl

#### ALIGNMENTS

RESULT 1  
5175095-3  
; Patent No. 5175095  
; APPLICANT: Martineau, Belinda M., Houck, Catherine M.  
; TITLE OF INVENTION: OVARY TISSUE TRANSCRIPTIONAL FACTORS  
; NUMBER OF SEQUENCES: 9  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/554,195  
; FILING DATE: 17-JUL-1990  
; SEQ ID NO: 3:  
; LENGTH: 188  
5175095-3

Query Match 67.5%; Score 185; DB 6; Length 188;  
Best Local Similarity 66.7%; Pred. No. 1.5e-14;  
Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

Qy 3 CKTESNTPFGICITKTPKCISEKFTDGHCSKILRRCLCTKPC 47  
Db 42 CKAPSOTFPGICFMDSCRYCKIKSEKFTGHCSTKXLRCLCTKPC 86

RESULT 2  
US-08-377-687-28  
; Sequence 28, Application US/08377687  
; Patent No. 5538525

GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMMIE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: VANDERLEYDEN, JOZEF  
TITLE OF INVENTION: BIOCIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DABRY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/377,687  
FILING DATE:

CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-377-687-28

Query Match 44.2%; Score 121; DB 1; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKKACISEKFTDGHCSKILRCLCTKPC 47  
DB 1 RHCELSHFRKGPCTRDSCASVCETERFSGNCHGRFRRCFTKPC 47

RESULT 3  
US-08-656-318A-13  
Sequence 13, Application US/08656318A  
Patent No. 5750504  
GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSER: CUSHMAN DABRY & CUSHMAN  
ADDRESSER: Intellectual Property Group of  
ADDRESSER: PILLSBURY WADSWORTH & SUTRO LLP  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/656,318A  
FILING DATE: 12-JUN-1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9326424.0  
FILING DATE: 24-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB94/02766  
FILING DATE: 19-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 224199/SEE37925/UST  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3075  
TELEFAX: (202) 822-0944  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: p322  
US-08-656-318A-13

Query Match 44.2%; Score 121; DB 1; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKKACISEKFTDGHCSKILRCLCTKPC 47  
DB 1 RHCELSHFRKGPCTRDSCASVCETERFSGNCHGRFRRCFTKPC 47

RESULT 4  
US-08-777-192-28  
Sequence 28, Application US/08777192  
Patent No. 562469  
GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: TERPES, FRANKY R.G.  
APPLICANT: VANDERLEIDEN, JOZEF  
TITLE OF INVENTION: BIOCIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSER: CUSHMAN DABRY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/777,192  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-777-192-28

Query Match 44.2%; Score 121; DB 2; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKKACISEKFTDGHCSKILRCLCTKPC 47  
DB 1 RHCELSHFRKGPCTRDSCASVCETERFSGNCHGRFRRCFTKPC 47

```

RESULT 5
US-08-956-459-13
; Sequence 13, Application US/08956459
; Patent No. 5919918
; GENERAL INFORMATION:
; APPLICANT: BROEKERT, WILLEM F.
; APPLICANT: CAMUTE, BRUNO P.A.
; APPLICANT: OSBORN, ROBERT W.
; APPLICANT: REES, SARAH B.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PILLSBURY MADISON & SUTRO LLP
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/956,459
; FILING DATE: 22-OCT-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/656,318
; FILING DATE: 12-JUN-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB94/02766
; FILING DATE: 19-DEC-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9326424.0
; FILING DATE: 24-DEC-1993
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: p322
; US-08-956-459-13

Query Match          44.2%; Score 121; DB 2; Length 47;
; Best Local Similarity 42.6%; Pred. No. 1.3e-07;
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTFPGICITKPPCKKACISEKFTDGHGSKILRRCLCTKPC 47
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
    1 RHCELSHRFKGCTRDSCNCAVCETERFSGNCHGRRRCFCCTKPC 47
DB

RESULT 6
US-08-971-982-28
; Sequence 28, Application US/08971982
; Patent No. 6187904
; GENERAL INFORMATION:
; APPLICANT: BROEKERT, WILLEM F.
; APPLICANT: CAMUTE, BRUNO P.A.
; APPLICANT: OSBORN, ROBERT W.
; APPLICANT: REES, SARAH B.
; APPLICANT: REES, FRANKY R.G.
; APPLICANT: VANDERLEYDEN, JOZEF
; TITLE OF INVENTION: BIOCIDAL PROTEINS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DAREY & CUSHMAN

QY 1 RECKTESNTFPGICITKPPCKKACISEKFTDGHGSKILRRCLCTKPC 47
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
    1 RHCELSHRFKGCTRDSCNCAVCETERFSGNCHGRRRCFCCTKPC 47
DB

RESULT 7
US-09-442-631-4
; Sequence 4, Application US/09442631
; Patent No. 6300489
; GENERAL INFORMATION:
; APPLICANT: OH, BOUNG-JUN
; APPLICANT: KO, MOON KYUNG
; APPLICANT: SHIN, BYONGCHUL
; APPLICANT: CHUNG, CHANG HO
; TITLE OF INVENTION: SMALL AND CYSTEINE RICH ANTIFUNGAL DEFENSIN AND
; TITLE OF INVENTION: THIONIN-LIKE PROTEIN GENES HIGHLY EXPRESSED IN THE
; FILE REFERENCE: 1942/44
; CURRENT APPLICATION NUMBER: US/09/442,631
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Capsicum annuum
; US-09-442-631-4

Query Match          42.3%; Score 116; DB 4; Length 74;
; Best Local Similarity 42.2%; Pred. No. 7.8e-07;
Matches 19; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 3 CKTESNTFPGICITKPPCKKACISEKFTDGHGSKILRRCLCTKPC 47
    |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
    29 CEALSGNFKGLCLISRDGCVCRBSGFTDGSCTGRRLCCFTKPC 73
DB
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; APPLICATION NUMBER: US/08/761,549
; FILING DATE: 06-DEC-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/289,458
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Dow, Karen B.
; REGISTRATION NUMBER: 29,684
; REFERENCE/DOCKET NUMBER: 12176-4
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 75 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-761-549-2

Query Match 41.2%; Score 113; DB 2; Length 75;
Best Local Similarity 40.0%; Pred. No. 1.8e-06;
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;

QY 3 KXTENTFPGICITKPCRCACISEKFTDGHGSKILRCLCTKPC 47
; : : : : : : : : : : : : : : : : : : : : : :
DB 30 CEALTGNFKGLCLSRDCGNVCRREGFTDGSIGFRLQCFCTKPC 74
; : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-09-127-646-2
; Sequence 2, Application US/09127646
; Patent No. 6291744
; GENERAL INFORMATION:
; APPLICANT: Baden, Catherine S.
; APPLICANT: Dunsmuir, Pamela
; APPLICANT: Lee, Kathleen Y.
; APPLICANT: DNA Plant Technology Corporation
; TITLE OF INVENTION: Nucleic Acids Encoding Plant Group 2 Proteins and Uses
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: 012176-00420US
; CURRENT APPLICATION NUMBER: US/09/127,646
; CURRENT FILING DATE: 1998-07-31
; EARLIER APPLICATION NUMBER: US 08/289,458
; EARLIER FILING DATE: 1994-08-12
; EARLIER APPLICATION NUMBER: US 08/761,549
; EARLIER FILING DATE: 1996-12-06
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Capsicum annuum
; US-09-127-646-2

Query Match 41.2%; Score 113; DB 3; Length 75;
Best Local Similarity 40.0%; Pred. No. 1.8e-06;
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;

QY 3 KXTENTFPGICITKPCRCACISEKFTDGHGSKILRCLCTKPC 47
; : : : : : : : : : : : : : : : : : : : : : :
DB 30 CEALTGNFKGLCLSRDCGNVCRREGFTDGSIGFRLQCFCTKPC 74
; : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
US-09-442-631-2
; Sequence 2, Application US/09442631
; Patent No. 6300489
; GENERAL INFORMATION:
; APPLICANT: OH, BOUNG-JUN
; APPLICANT: KO, MOON KYUNG
; APPLICANT: SHIN, BYONGCHUL

```

APPLICANT: CHUNG, CHANG HO  
TITLE OF INVENTION: SMALL AND CYSTEINE RICH ANTIFUNGAL DEFENSIN AND  
TITLE OF INVENTION: THIONIN-LIKE PROTEIN GENES HIGHLY EXPRESSED IN THE  
TITLE OF INVENTION: INCOMPATIBLE INTERACTION  
FILE REFERENCE: 1942/44  
CURRENT APPLICATION NUMBER: US/09/442,631  
CURRENT FILING DATE: 1999-11-18  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 2  
LENGTH: 83  
TYPE: PRT  
ORGANISM: Capsicum annuum  
US-09-442-631-2

Query Match 39.2%; Score 107.5; DB 4; Length 83;  
Best Local Similarity 50.0%; Pred. No. 8.7e-06;  
Matches 20; Conservative 5; Mismatches 14; Indels 1; Gaps 1;

Qy 9 TFGICITKPCRKACI-SEKFTDGHCSKILRRCLCTKPC 47  
Db 33 TKPVKSSDPLCQKLCMEKEIEDGHCFITLSKLCWKRC 72

RESULT 12  
US-377-687-29  
Sequence 29, Application US/08377687  
Patent No. 5538525  
GENERAL INFORMATION:  
APPLICANT: BROEKAERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: TERRAS, FRANKY R.G.  
APPLICANT: VANDERLEYDEN, JOZEF  
TITLE OF INVENTION: BIOCIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DARB Y & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/377,687  
FILING DATE:  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-377-687-29

Query Match 36.1%; Score 99; DB 1; Length 48;

Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;  
Qy 1 RECKTESNTFFPGICITKPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RVCWGSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKIRQC 47  
RESULT 13  
US-08-656-318A-11  
Sequence 11, Application US/08656318A  
Patent No. 5750504  
GENERAL INFORMATION:  
APPLICANT: BROEKAERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DARB Y & CUSHMAN  
ADDRESSEE: Intellectual Property Group of  
ADDRESSEE: PILLSBURY WADISON & SUTRO LLP  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/656,318A  
FILING DATE: 12-JUN-1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9326424.0  
FILING DATE: 24-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB94/02766  
FILING DATE: 19-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 224199/SEE37925/UST  
TELEPHONE: (202) 861-3075  
TELEFAX: (202) 822-0944  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE: S1a3  
ORGANISM: S1a3  
US-08-656-318A-11

Query Match 36.1%; Score 99; DB 1; Length 48;  
Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

Qy 1 RECKTESNTFFPGICITKPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RVCWGSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKIRQC 47

RESULT 14  
US-08-777-192-29  
Sequence 29, Application US/08777192

Patent No. 5824869  
GENERAL INFORMATION:  
APPLICANT: BROEKAERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: TERRAS, SARAH B.  
APPLICANT: THERAS, FRANKY R.G.  
APPLICANT: VANDERLEYDEN, JOZEF  
TITLE OF INVENTION: BIOTICIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DABRY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/777,192  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-777-192-29  
Query Match 36.1%; Score 99; DB 2; Length 48;  
Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;  
QY 1 RECKTESNTPPGICITKPCRCACISEKFTDGHCKSKILRRCLCTKPC 47  
Db 1 RVCMGKSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKCIRQC 47  
RESULT 15  
US-08-956-459-11  
Sequence 11, Application US/08956459  
Patent No. 5919918  
GENERAL INFORMATION:  
APPLICANT: BROEKAERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PILLSBURY MADISON & SUTRO LLP  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/956,459  
FILING DATE: 22-OCT-1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/656,318  
FILING DATE: 12-JUN-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB94/02766  
FILING DATE: 19-DEC-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9326424.0  
FILING DATE: 24-DEC-1993  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: S1a3  
US-08-956-459-11  
Query Match 36.1%; Score 99; DB 2; Length 48;  
Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;  
QY 1 RECKTESNTPPGICITKPCRCACISEKFTDGHCKSKILRRCLCTKPC 47  
Db 1 RVCMGKSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKCIRQC 47  
Search completed: September 23, 2004, 19:01:42  
Job time : 33 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 23, 2004, 18:55:30 ; Search time 128 Seconds  
(without alignments)  
118.072 Million cell updates/sec

Title: US-10-072-809B-8  
Perfect score: 274  
Sequence: 1 RECKTESNTFPGICITKPPC.....KFTDGHCSKILRRCLCTKPC 47

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1349238 seqs, 321558718 residues  
Total number of hits satisfying chosen parameters: 1349238

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US40\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	274	100.0	47	15	US-10-072-809A-8
2	274	100.0	72	15	US-10-072-809A-14
3	274	100.0	80	15	US-10-072-809A-16
4	274	100.0	105	15	US-10-072-809A-18
5	272	99.3	47	15	US-10-072-809A-25
6	272	99.3	105	15	US-10-072-809A-20
7	264	96.4	105	15	US-10-072-809A-51
8	237	86.5	106	15	US-10-072-809A-52
9	208	75.9	79	15	US-10-072-809A-50
10	185	67.5	47	15	US-10-072-809A-26
11	185	67.5	105	15	US-10-072-809A-21
12	145	52.9	47	14	US-10-178-213-279
13	145	52.9	78	14	US-10-178-213-278
14	140	51.1	68	16	US-10-437-963-149203
15	139	50.7	47	14	US-10-178-213-84

16	139	50.7	78	14	US-10-178-213-83	Sequence 83, Appl
17	138	50.4	81	16	US-10-437-963-174312	Sequence 174312,
18	136	49.6	47	14	US-10-178-213-87	Sequence 87, Appl
19	136	49.6	78	14	US-10-178-213-86	Sequence 86, Appl
20	135	49.3	47	14	US-10-178-213-291	Sequence 291, App
21	135	49.3	75	14	US-10-178-213-290	Sequence 290, App
22	134	48.9	47	14	US-10-178-213-3	Sequence 3, Appli
23	134	48.9	74	14	US-10-178-213-2	Sequence 2, Appli
24	133	48.5	78	16	US-10-437-963-167558	Sequence 167558,
25	133	48.5	78	16	US-10-437-963-167559	Sequence 167559,
26	132	48.2	47	14	US-10-178-213-294	Sequence 294, App
27	132	48.2	47	14	US-10-178-213-414	Sequence 414, App
28	132	48.2	47	14	US-10-178-213-444	Sequence 444, App
29	132	48.2	72	14	US-10-178-213-413	Sequence 413, App
30	132	48.2	78	14	US-10-178-213-433	Sequence 433, App
31	132	48.2	79	14	US-10-178-213-293	Sequence 293, App
32	131	47.8	79	12	US-10-424-599-228130	Sequence 228130,
33	129	47.1	47	14	US-10-178-213-408	Sequence 408, App
34	129	47.1	77	14	US-10-178-213-407	Sequence 407, App
35	128	46.7	675	16	US-10-437-963-189872	Sequence 189872,
36	127	46.4	52	14	US-10-178-213-123	Sequence 123, App
37	127	46.4	52	14	US-10-178-213-126	Sequence 126, App
38	127	46.4	64	14	US-10-178-213-122	Sequence 122, App
39	127	46.4	79	14	US-10-178-213-125	Sequence 125, App
40	126	46.0	47	14	US-10-178-213-309	Sequence 309, App
41	126	46.0	77	14	US-10-178-213-308	Sequence 308, App
42	125	45.6	77	16	US-10-767-701-40997	Sequence 40997, A
43	124	45.3	47	14	US-10-178-213-387	Sequence 387, App
44	124	45.3	84	12	US-10-424-599-156998	Sequence 156998,
45	124	45.3	84	14	US-10-178-213-386	Sequence 386, App

## ALIGNMENTS

### RESULT 1

US-10-072-809A-8  
; Sequence 8, Application US/10072809A  
; Publication No. US20030217382A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.  
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and  
; TITLE OF INVENTION: therefor  
; FILE REFERENCE: 18-01  
; CURRENT APPLICATION NUMBER: US/10/072,809A  
; PRIOR FILING DATE: 2002-09-12  
; PRIOR APPLICATION NUMBER: USSN 60/267,271  
; PRIOR FILING DATE: 2001-02-08  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 8  
; LENGTH: 47  
; TYPE: PRT  
; ORGANISM: Nicotiana glauca  
; US-10-072-809A-8

Query Match 100.0%; Score 274; DB 15; Length 47;  
Best Local Similarity 100.0%; Pred. No. 4.2e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RECKTESNTFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RECKTESNTFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47

### RESULT 2

US-10-072-809A-14  
; Sequence 14, Application US/10072809A  
; Publication No. US20030217382A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.  
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and  
; TITLE OF INVENTION: therefor

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; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 14
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Nicotiana glauca
; US-10-072-809A-14

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Query Match	100.0%	Score 274;	DB 15;	Length 72;
Best Local Similarity	100.0%;	Pred. No. 6.6e-25;		
Matches 47;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY            1 RECKTESNTFPGICITPPCRKACISEKFTDGHCSKILRRCLCTKPC    47  
;            |  
;            |  
Db          26 RECKTESNTFPGICITPPCRKACISEKFTDGHCSKILRRCLCTKPC    72

### RESULT 3

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US-10-072-809A-15
; Sequence 16, Application US/10072809A
; Publication, NUS0030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-Derived molecules and genetic sequences encoding same and u
; TITLE OF INVENTION: threfor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 16
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Nicotiana glauca
; US-10-072-809A-15

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Query Match	100.0%;	Score 274;	DB 15;	Length 80;
Best Local Similarity	100.0%;	Pred. No. 7.3e-25;		
Matches 47;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy 1 REKTESNTFPGICITPPCKACISEKFTDGHCSKILRRCLTKPC 47  
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Dd 1 REKTESNTFPGICITPPCKACISEKFTDGHCSKILRRCLTKPC 47  
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## RESULT 4

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US-10-072-809A-18
; Sequence 18, Application US/10072809A
; Publication NO US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and u
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 18
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Nicotiana glauca
US-10-072-809A-18

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Query Match      100.0%; Score 274; DB 15; Length 105;
Best Local Similarity 100.0%; Pred.No. 9.5e-25;
Matches 47; Conservative 0; Mismatches 0; Indels 0

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Db 26 RECKTESNTFFGICITKPPCKKACISSEFTDGHGSKILRRCLCTKPC 72

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## RESULT 5

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US-10-072-809A-25
; Sequence 25, Application US/10072809A
; Publication NO. US20050217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same ar
; TITLE OF INVENTION: therefor
; FILE REFERENCES: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 25
; LENGTH: 47
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-25

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Query Match 99.3%; Score 272; DB 15; Length 47;  
Best Local Similarity 97.9%; Pred. No. 7.4e-25;  
Matches 46; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 RECKTESNTFPGICITKPPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
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Db 1 RECKTESNTFPGICITKPPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
|||||

## RESULT 6

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US-10-072-809A-20
; Sequence 20, Application US/10072809A
; Publication, NO, US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same an
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
; LENGTH: 105
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-20

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Query Match 99.3%; Score 272; DB 15; Length 105;  
Best Local Similarity 97.9%; Pred. No. 1.6e-24;  
Matches 46; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RECKTESNTFPGICITKPPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
26 RECKTESNTFPGICITKPPCRKACISEKFTDGHCSKILRRCLCTKPC 72  
Db

## RESULT 7

US-10-072-809A-51  
; Sequence 51, Application US/10072809A  
; Publication No. US20030217382A1



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; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 51
; LENGTH: 105
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-51

Query Match      96.4%; Score 264; DB 15; Length 105;
Best Local Similarity 93.6%; Pred. No. 1.4e-23;
Matches 44; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Db 26 KDCATESNTFGICITKPPCKKACISEKFTDGHCSKILRRCLCTKPC 72
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RESULT 8
US-10-072-809A-52
; Sequence 52, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 52
; LENGTH: 106
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-52

Query Match      86.5%; Score 237; DB 15; Length 106;
Best Local Similarity 86.7%; Pred. No. 2.2e-20;
Matches 39; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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Db 29 CKAESNTFGICITKPPCKKACISEKFTDGHCSKILRRCLCTKPC 73
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RESULT 9
US-10-072-809A-50
; Sequence 50, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 50
; LENGTH: 79
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-50

Query Match      75.9%; Score 208; DB 15; Length 79;
Best Local Similarity 78.7%; Pred. No. 4.4e-17;
Matches 37; Conservative 1; Mismatches 7; Indels 2; Gaps 1;

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Db 10 RECAE--IFTGLCITNPOCRKACIKEKFTDGHCSKILRRCLCTKPC 54
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10
US-10-072-809A-26
; Sequence 26, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 26
; LENGTH: 47
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-26

Query Match      67.5%; Score 185; DB 15; Length 47;
Best Local Similarity 66.7%; Pred. No. 1.4e-14;
Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

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Db 3 CKAPSQTFFGLCFWDSCKRYCICEKFTGHCCKLQKCLCTKPC 47
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RESULT 11
US-10-072-809A-21
; Sequence 21, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 21
; LENGTH: 105
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-21

Query Match      67.5%; Score 185; DB 15; Length 105;
Best Local Similarity 66.7%; Pred. No. 3e-14;
Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

Qy 3 CKTESNTFGICITKPPCKKACISEKFTDGHCSKILRRCLCTKPC 47
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 29 CKAPSQTFFGLCFWDSCKRYCICEKFTGHCCKLQKCLCTKPC 73
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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QY	Db	QY	Db	QY	Db	QY	Db	QY	Db		
1	RECKTESNTPFGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC	47	1	RECKTESNTPFGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC	47	1	RECKTESNTPFGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC	47	1	RECKTESNTPFGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC	47
32	RVCETDSTRFKGICMVGNTNCANICLTGFTSGKCSGLRKRKICITKPC	78	32	RVCETDSTRFKGICMVGNTNCANICLTGFTSGKCSGLRKRKICITKPC	78	32	RVCETDSTRFKGICMVGNTNCANICLTGFTSGKCSGLRKRKICITKPC	78	32	RVCETDSTRFKGICMVGNTNCANICLTGFTSGKCSGLRKRKICITKPC	78
RESULT 14											
US-10-437-963-149203											
; Sequence 149203, Application US/10437963											
; Publication No. US20040123343A1											
; GENERAL INFORMATION:											
; APPLICANT: La Rosa, Thomas J.											
; APPLICANT: Kovalic, David K.											
; APPLICANT: Zhou, Yihua											
; APPLICANT: Cao, Yongwei											
; APPLICANT: Wu, Wei											
; APPLICANT: Boukharov, Andrey A.											
; APPLICANT: Barbazuk, Brad											
; APPLICANT: Li, Ping											
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With											
; FILE REFERENCE: 38-21(53221)B											
; CURRENT FILING DATE: 2003-05-14											
; NUMBER OF SEQ ID NOS: 204966											
; SEQ ID NO 149203											
; LENGTH: 68											
; TYPE: PRT											
; ORGANISM: Oryza sativa											
; FEATURE:											
; OTHER INFORMATION: Clone ID: PAT_MRT4530_4955C.1.pep											
US-10-437-963-149203											
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Best Local Similarity 48.9%; Pred. No. 4e-09; Indels 0; Gaps 0;											
Matches 23; Conservative 7; Mismatches 17;											
RESULT 15											
US-10-178-213-84											
; Sequence 84, Application US/10178213											
; Publication No. US20030041348A1											
; GENERAL INFORMATION:											
; APPLICANT: Simmons, Carl R.											
; APPLICANT: Navarro Acevedo, Pedro A.											
; APPLICANT: Harvell, Leslie											
; APPLICANT: Cahoon, Rebecca											
; APPLICANT: McCutchen, Billy Fred											
; APPLICANT: Lu, Albert											
; APPLICANT: Herrmann, Rafael											
; APPLICANT: Wong, James											
; TITLE OF INVENTION: Defense Polynucleotides and Methods of											
; FILE REFERENCE: 35718/246703											
; CURRENT FILING DATE: 2002-06-21											
; PRIOR APPLICATION NUMBER: US/10/178,213											
; PRIOR FILING DATE: 2001-06-22											
; NUMBER OF SEQ ID NOS: 469											
; SOFTWARE: FastSeq for Windows Version 4.0											
; SEQ ID NO 84											
; LENGTH: 47											
; TYPE: PRT											
; ORGANISM: Beta vulgaris											
US-10-178-213-84											
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Best Local Similarity 48.9%; Pred. No. 3.7e-09; Indels 0; Gaps 0;											
Matches 23; Conservative 8; Mismatches 16;											
RESULT 13											
US-10-178-213-278											
; Sequence 278, Application US/10178213											
; Publication No. US20030041348A1											
; GENERAL INFORMATION:											
; APPLICANT: Simmons, Carl R.											
; APPLICANT: Navarro Acevedo, Pedro A.											
; APPLICANT: Harvell, Leslie											
; APPLICANT: Cahoon, Rebecca											
; APPLICANT: McCutchen, Billy Fred											
; APPLICANT: Lu, Albert											
; APPLICANT: Herrmann, Rafael											
; APPLICANT: Wong, James											
; TITLE OF INVENTION: Defense Polynucleotides and Methods of											
; FILE REFERENCE: 35718/246703											
; CURRENT FILING DATE: 2002-06-21											
; PRIOR APPLICATION NUMBER: US/10/178,213											
; PRIOR FILING DATE: 2001-06-22											
; NUMBER OF SEQ ID NOS: 469											
; SOFTWARE: FastSeq for Windows Version 4.0											
; SEQ ID NO 278											
; LENGTH: 78											
; TYPE: PRT											
; ORGANISM: Triticum aestivum											
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Matches 23; Conservative 8; Mismatches 16;											

Matches 23; Conservative 6; Mismatches 18; Indels 0; Gaps 0;

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> 1 RECKTESNTPGICITKPPCKKACISEKFTDGHCSKILARCLCTKPC 47
> 1 RTCTPSHQPRGICVSRNCESACHTERPPGGTCOGFRRRCNCTKPC 47

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